

## CLAIMS

1. A receiving apparatus including a plurality of antennas and a plurality of signal processing units, each of which processes a received signal of one of the plurality of antennas, comprising:

a gain control signal generating unit operable to generate a gain control signal based on a signal obtained from one of the plurality of signal processing units;

a plurality of variable gain units, (i) each of which is included in one of the plurality of signal processing units, and (ii) whose gains are controlled based on the gain control signal; and

a gain standardizing unit operable to, when the gains are uniformly controlled based on the gain control signal, assign a gain to each of the plurality of signal processing units to offset a gain deviation occurring therein.

2. The receiving apparatus of Claim 1, wherein

the gain standardizing unit comprises a plurality of gain regulators, each of which is included in one of the plurality of signal processing units and assigns the gain to the one of the plurality of signal processing units to offset the gain deviation occurring therein.

3. The receiving apparatus of Claim 1, wherein

the gain standardizing unit prestores, for each of the plurality of signal processing units, an offset corresponding to the gain deviation,

the gain control signal is corrected, for each of the plurality of signal processing units, by adding the prestored offset thereto, and

the gains of the plurality of variable gain units are controlled, for each of the plurality of signal processing units, based on the corrected gain control signal.

4. The receiving apparatus of Claim 3, wherein

the gain standardizing unit prestores, for each of the plurality of signal processing units, a plurality of offsets corresponding to the gain deviation, in association with a plurality of different received signal frequencies and a plurality of different gain control signal levels, and

the gain control signal is corrected, for each of the plurality of signal processing units, by adding thereto one of the prestored plurality of offsets that is in association with a frequency of the received signal being actually processed and a level of the gain control signal.

5. The receiving apparatus of Claim 3, further comprising:

a calibration signal supply unit operable to supply a calibration signal of a same level to the respective plurality of signal processing units; and

an offset determining unit operable to determine an offset for each of the plurality of signal processing units according to the calibration signal so as to standardize levels of signals obtained from the respective plurality of signal processing units, and

the gain standardizing unit updates, for each of the plurality of signal processing units, the prestored offset to the determined offset.

5 6. The receiving apparatus of one of Claims 1, 2, 3, 4, and 5, further comprising:

a directivity processing unit operable to obtain a desired directivity by processing signals obtained from the respective plurality of signal processing units, using adaptive array  
10 technique.